



UNITED STATES PATENT AND TRADEMARK OFFICE

MARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,635	06/25/2003	Larry Eugene Steidl	DN 1997-228-USA-D-P-01	4035
7590 04/04/2006				
BROUSE McDOWELL 500 First National Tower Akron, OH 44308-1471				
EXAMINER VARGOT, MATHIEU D				
ART UNIT		PAPER NUMBER		
1732				

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/603,635

Applicant(s)

STEIDL ET AL.

Examiner

Mathieu D. Vargot

Art Unit

1732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 19-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/19/2004</u> | 6) <input type="checkbox"/> Other: ____ |

Art Unit: 1732

1. Claims 19-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the claims, it has not been clearly set forth how the lock ring actually functions to lock the mold top and bottom halves together. Apparently, applicant merely places the lock ring around the mold segments and it is unclear how a mere placement therearound would actually lock the mold segments together. Clarification is required as to how the lock ring actually locks the segments together. In claims 19 and 21, the recitation “said (a) lock ring being selectively connected (connectable) to said first lock rod at said quick connect coupling” is indefinite in that it is unclear how the lock ring is connected—ie, the meaning of “selectively” should be clarified as to how the lock ring is actually connected. See claim 19, lines 9-10 and claim 21, lines 5-6. Also, the nexus between the lock frame, first lock motor and first lock rod has not been fully set forth in apparatus claim 19. Ie, it is not clear how these components cooperate to allow the lock ring to be employed. A recitation such as that at lines 10-11 of claim 21 needs to be inserted into claim 19 to establish what is occurring. Also, claim 21 should be amended to recite that the lock cylinder is what is lowering the lock frame. Claim 21, lines 12-14 require amendment concerning the recitation “lifting said locking mechanism away from the mold, coupling, and, lifting said locking mechanism away from the mold”, such not making any sense. Also, claim 21 calls for a method “for locking” and the last line of the claim recites lifting the locking mechanism away from the mold. It is not clear how lifting

Art Unit: 1732


away a locking mechanism constitutes a locking of the mold. Claims 20 and 22, the dependencies need to be corrected.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mathieu D. Vargot whose telephone number is 571 272-1211. The examiner can normally be reached on Mon-Fri from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni, can be reached on 571 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Vargot
March 30, 2006


Mathieu D. Vargot
Primary Examiner
Art Unit 1732

3/30/06



Under the Paperwork Reduction Act of 1995, no persons collection of information unless it displays a valid OMB are required to respond to a Collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/603,635
Filing Date	June 25, 2003
First Named Inventor	Larry Eugene Steidl
Art Unit	1722
Examiner Name	Unknown
Attorney Docket No.	31065.23702 (DNI997-228US-D01)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number--Kind Code ² (If known)			
MDV		US- 3,932,079	01-13-1976	Legostaev, et al.	
		US- 4,728,274	03-01-1998	Siegenthaler	
		US- 5,622,669	04-22-1997	Dailiez et al.	
		US- 5,631,028	05-20-1997	Mizokawa, et al.	
		US- 5,741,528	04-21-1998	Amano, et al.	
		US- 5,746,964	05-05-1998	Ureshino, et al.	
		US- 5,681,594	10-28-1997	Irie	
		US- 5,820,885	10-13-1998	Irie	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)				
MDV		DE1 204,814 - German	03-27-1922			
		2 619 337 A1 - France	02-17-1989			
		EP 0 510 332 B1	05-06-1998			
		7-117055 - Japan	05-05-1995			
		EP 0 712 704 A2	05-22-1996			
		EP 0 754 530 B1	01-22-1997			
		DE 196 084 A1 - German	March 1907			
		DE 44 34 406 A1	03-16-1995			
		8-164528 - Japan	06-25-1996			
		8-150623 - Japan	06-11-1996			
		8-164527 - Japan	06-25-1996			
		7-100834 - Japan	04-18-1995			
		7-96526 - Japan	04-11-1995			
		7-80846 - Japan	03-28-1995			
		7-80845 - Japan	03-28-1995			
		7-1469 - Japan	01-06-1995			
		5-77249 - Japan	03-30-1993			
		3-197007 - Japan	08-28-1991			
		60-159010 - Japan	08-20-1985			
		8-132442 - Japan	05-28-1996			
		8-127025 - Japan	05-21-1996			
		8-127026 - Japan	05-21-1996			
		7-60753 - Japan	03-07-1995			
		4-323010 - Japan	11-12-1992			

Examiner Signature	M. Varghese	Date Considered	3/29/06
--------------------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the right of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9799) and select option 2.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons collection of information unless it displays a valid OMB are required to respond to a Collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/603,635
				Filing Date	June 25, 2003
				First Named Inventor	Larry Eugene Steidl
				Art Unit	1722
				Examiner Name	Unknown
Sheet	1	of	2	Attorney Docket No.	31065.23702 (DNI997-228US-D01)

[illegible]

Examiner Signature	M. Vangst	Date Considered	3/29/06
-----------------------	-----------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9799) and select option 2.



COMMISSIONER FOR PATENTS

P.O. BOX 1450

ALEXANDRIA, VA 22313-1450

IF UNDELIVERABLE RETURN IN TEN DAYS

OFFICIAL BUSINESS

AN EQUAL OPPORTUNITY EMPLOYER

